

Newton's Laws

Key Terms

Newton's Laws Terms

- **Acceleration:** Change in velocity over time
- **Equilibrium:** a state of balance where no net forces act
- **Friction:** force that resists the relative motion of an object that is in contact with something else
- **Gravity “g”:** the force of gravitational acceleration (9.8 m/s^2)

Newton's Laws Terms

- **Inertia:** an objects resistance to change its state of motion
- **Mass:** measure of the amount of matter in an object
- **Kilogram:** unit of mass
- **Meters per second squared:** unit of acceleration
- **Weight:** a force that represents your mass multiplied by acceleration

Newton's Laws Terms

- **First law:** Object at rest stays at rest, an object in motion stays in motion, unless acted upon by an outside force
- **Second law:** $F=ma$
- **Third law:** Equal and opposite forces